

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10043440
Filing Date	2002-01-10
First Named Inventor	MARANAS, COSTAS D.
Art Unit	1631
Examiner Name	CLOW, LORI A.
Attorney Docket Number	P05468US01 - (3 OF 3)

U.S.PATENTS						Remove		
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Patent citation information please click the Add button.						Add		
U.S.PATENT APPLICATION PUBLICATIONS						Remove		
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Published Application citation information please click the Add button.						Add		
FOREIGN PATENT DOCUMENTS						Remove		
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							<input type="checkbox"/>
If you wish to add additional Foreign Patent Document citation information please click the Add button						Add		
NON-PATENT LITERATURE DOCUMENTS						Remove		
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.					T ⁵	

page blank LAC 01/29/2010

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /LC/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i>		Application Number	10043440
		Filing Date	2002-01-10
		First Named Inventor	MARANAS, COSTAS D.
		Art Unit	1631
		Examiner Name	CLOW, LORI A.
		Attorney Docket Number	P05468US01 - (3 OF 3)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /LC/

/LC/	1	Varma et al., "Biochemical production capabilities of Escherichia coli," Biotechnol. Bioeng. 42(1):59-73 (1993). <input type="checkbox"/>
	2	Varma et al., "Stoichiometric Interpretation of Escherichia coli Glucose Catabolism Under Various Oxygenation Rates," Appl. Environ. Microbiol. 59(8):2465-2473 (1993). <input type="checkbox"/>
	3	Varner and Ramkrishna, "Metabolic engineering from a cybernetic perspective. 1. Theoretical preliminaries," Biotechnol. Prog. 15(3):407-425 (1999). <input type="checkbox"/>
	4	Varner and Ramkrishna, "Mathematical Models of Metabolic Pathways," Curr. Opin. Biotechnol. 10(2):146-150 (April 1999). <input type="checkbox"/>
	5	Voit, "Optimization in Integrated Biochemical Systems," Biotechnol. Bioeng. 40(5):572-582 (1992). <input type="checkbox"/>
	6	Wang, et al., "Cadmium removal by a new strain Pseudomonas aeruginosa in aerobic culture," App. Environ. Microbiol. 63:4075-4078 (1997). <input type="checkbox"/>
	7	Xie and Wang, "Stoichiometric analysis of animal cell growth and its application in medium design," Biotechnol. Bioeng. 43(11):1164-1174 (1994). <input type="checkbox"/>
	8	Xie and Wang, "Applications of improved stoichiometric model in medium design and fed-batch cultivation of animal cells in bioreactor," Cytotechnology 15(1-3):17-29 (1994). <input type="checkbox"/>
	9	Xie and Wang, "Energy metabolism and ATP balance in animal cell cultivation using a stoichiometrically based reaction network," Biotechnol. Bioeng. 52(5):591-601 (1996). <input type="checkbox"/>
	10	Xie and Wang, "Integrated approaches to the design of media and feeding strategies for fed-batch cultures of animal cells," Trends Biotechnol. 15(3):109-113 (1997). <input type="checkbox"/>
/LC/	11	Xie and Wang, "Material Balance Studies on Animal Cell Metabolism Using Stoichiometrically Based Reaction Network," Biotechnol. Bioeng. 52:579-590 (1996). <input type="checkbox"/>

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i>		Application Number	10043440
		Filing Date	2002-01-10
		First Named Inventor	MARANAS, COSTAS D.
		Art Unit	1631
		Examiner Name	CLOW, LORI A.
		Attorney Docket Number	P05468US01 - (3 OF 3)

/LC/	12	Yang, et al., "Metabolic Flux Analysis of Escherichia coli Deficient in the Acetate Production Pathway and Expressing the Bacillus subtilis Acetylactate Synthase," Met. Eng. (1999). <input type="checkbox"/>
	13	Zeikus, "Biotechnology of succinate acid production and markets for derived industrial products," Appl. Microbiol. Biotechnol. 51:545-552 (1999). <input type="checkbox"/>
	14	Zeng and Biebl, "Bulk chemicals from biotechnology: the case of 1,3-propanediol production and the new trends," Adv. Biochem. Eng. Biotechnol. 74:239-59 (2002). <input type="checkbox"/>
	15	Zhu et al., "Improving 1,3-propanediol from glycerol in a metabolically engineered Escherichia coli by reducing accumulation of sn-glycerol-3-phosphate," Biotechnol. Prog. 18(4):694-699 (2002). <input type="checkbox"/>
	16	URL http://wwwilog.com/products/cplex/ accessed via the GAMS (Brooke, et al., (1998). <input type="checkbox"/>
	17	Chistoserdova, Ludmila et al., "Multiple Formate Dehydrogenase Enzymes in the Facultative Methylotroph Methylobacterium extorquens AM1 Are Dispensable for Growth on Methanol", Journal of Bacteriology, Vol. 186(1), pp. 22-28, Jan. 2004. <input type="checkbox"/>
	18	Karp, P.D., "Integrated pathway/genome databases and their role in drug discovery", Trends in Biotechnology, 17 (7):275-281, 1999. <input type="checkbox"/>
	19	Moore, Gregory L. et al., "Modeling DNA Mutation and Recombination for Directed Evolution Experiments" J. Theor. Biol. (2000) 205, 483-503. <input type="checkbox"/>
	20	Price, Nathan D. et al., "Genome-Scale Models of Microbial Cells:Evaluating the Consequences of Constraints" REVIEWS Vol 2, 886-897, 2004, www.nature.com/reviews/micro <input type="checkbox"/>
↓ /LC/	21	TIGR, Genomes, Medicine, and the Environment conference, October 16-18, 2006, 2 pages, The Institute for Genomic Research, http://www.tigr.org printed from Internet 9/18/2009. <input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /LC/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	10043440
	Filing Date	2002-01-10
	First Named Inventor	MARANAS, COSTAS D.
	Art Unit	1631
	Examiner Name	CLOW, LORI A.
	Attorney Docket Number	P05468US01 - (3 OF 3)

EXAMINER SIGNATURE

Examiner Signature	/Lori Clow/	Date Considered	01/29/2010
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /LC/